

CLAIMS

What is claimed is:

1 1. A method for conserving bandwidth between a wireless device and a
2 wireless service in a system in which message data are synchronized between
3 said wireless device and said service comprising:

4 entering a batch processing mode under certain specified conditions
5 wherein message transaction updates conducted at said wireless device and/or
6 said service are combined according to a set of batch processing parameters
7 and transmitted together to said service and/or said wireless device, respectively.

1 2. The method as in claim 1 wherein one of said specified conditions is a
2 length of time during which no message transactions are initiated at said device
3 and/or said service.

1 3. The method as in claim 1 wherein one of said specified conditions is a
2 length of time that said wireless device is out of range.

1 4. The method as in claim 1 wherein one of said specified conditions is
2 manual selection of said batch processing mode by a user.

1 5. The method as in claim 1 wherein one of said batch processing
2 parameters comprises transmitting said combined message transaction updates
3 after predetermined intervals of time.

1 6. The method as in claim 1 wherein one of said batch processing
2 parameters comprises transmitting said combined message transaction updates
3 after a predetermined number of updates have accrued.

1 7. The method as in claim 1 wherein one of said batch processing
2 parameters comprises transmitting said combined message transaction updates
3 after said combined message transaction updates have reached a
4 predetermined size.

1 8. The method as in claim 1 wherein one of said message transaction
2 updates comprises a deletion of a message.

1 9. The method as in claim 1 wherein said messages are email
2 messages.

1 10. A computer-implemented method comprising:
2 determining whether a plurality of message transaction conditions are met
3 in a data processing device and/or service with which said data processing
4 device is synchronized;
5 entering into a batch processing mode for batch processing said
6 synchronization updates between said wireless data processing device and a
7 service if said message transaction conditions are met; and
8 batch processing said synchronization updates between said wireless
9 data processing device and said service based on one or more batch processing
10 parameters.

1 11. The method as in claim 10 wherein one of said message transaction
2 conditions is a predetermined length of time during which synchronization
3 updates between said wireless data processing device and said service are not
4 performed.

1 12. The method as in claim 10 wherein one of said message transaction
2 conditions comprises manual selection of said batch processing mode by a user.

1 13. The method as in claim 10 wherein one of said message transaction
2 conditions comprises said device being out of range from said service for a
3 predetermined period of time.

1 14. The method as in claim 10 further comprising:
2 determining whether one or more standard message processing
3 conditions are met; and
4 exiting said batch processing mode if said one or more standard message
5 processing conditions are met.

1 15. The method as in claim 14 wherein one of said standard message
2 processing conditions comprises successive message transaction updates
3 occurring at periodic intervals greater than a predetermined threshold.

1 16. The method as in claim 10 wherein one of said synchronization
2 updates comprises a deletion of an email message.

1 17. The method as in claim 10 wherein one of said synchronization
2 updates comprises transmission of a message.

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1 18. The method as in claim 10 wherein said synchronization updates are
2 performed on email messages.

1 19. A system for synchronizing messages between a wireless device and
2 a service comprising:

3 message transaction detection logic to determine whether a plurality of
4 message transaction conditions are met in a data processing device and/or
5 service with which said data processing device is synchronized;

6 batch processing logic to batch process synchronization updates between
7 said wireless data processing device and a service if said message transaction
8 conditions are met, said batch processing performed based on one or more
9 batch processing parameters.

1 20. The system as in claim 19 wherein one of said message transaction
2 conditions is a predetermined length of time during which synchronization
3 updates between said wireless data processing device and said service are not
4 performed.

1 21. The system as in claim 19 wherein one of said message transaction
2 conditions comprises manual selection of said batch processing mode by a user.

1 22. The system as in claim 19 wherein one of said message transaction
2 conditions comprises said device being out of range from said service for a
3 predetermined period of time.

1 23. The system as in claim 19 further comprising:

2 standard message processing logic to determine whether one or more
3 standard message processing conditions are met, said system exiting said batch
4 processing mode if said one or more standard message processing conditions
5 are met.

1 24. The system as in claim 13 wherein one of said standard message
2 processing conditions comprises successive message transaction updates
3 occurring at periodic intervals greater than a predetermined threshold.

1 25. The method as in claim 19 wherein one of said synchronization
2 updates comprises a deletion of an email message.

1 26. The method as in claim 10 wherein one of said synchronization
2 updates comprises transmission of a message.